## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.	(Currently Amended) A fuel cell having at least a membrane electrode
assembly comprising comprising:	
	an electrolyte <del>membrane,</del> membrane;
	a hydrogen electrode-side catalyst layer formed on one side thereof, and; and
	an air electrode-side catalyst layer formed on the other side thereof,
	<u>in which wherein</u> a porosity of the hydrogen electrode-side catalyst layer is
made to be lower than a porosity-of of the air electrode-side catalyst layer and a volume of	
pore space—	of of the hydrogen electrode-side catalyst layer has a range of 1.0% to 3.0% of a
total volume of the catalyst layer.	

- 2. (Previously Presented) The fuel cell according to claim 1, wherein the hydrogen electrode-side catalyst layer and the air electrode-side catalyst layer each include ion-exchange resin and carbon carrier and a weight ratio of ion-exchange resin to carbon carrier of the hydrogen electrode-side catalyst layer is made to be larger than a weight ratio of ion-exchange resin to carbon carrier of the air electrode-side catalyst layer so that the porosity of the hydrogen electrode-side catalyst layer is made to be lower than the porosity of the air electrode-side catalyst layer.
- 3. (Currently Amended) The fuel cell according to claim 2, in which wherein the weight ratio of ion-exchange resin to carbon carrier—of of the hydrogen electrode-side catalyst layer is greater than or equal to 1.5:1 and less than 3.0:1 and the weight ratio of ion-exchange resin to carbon carrier—of of the air electrode-side catalyst layer is greater than or equal to 0.4:1 and less than 1.5:1.

- 4. (Currently Amended) The fuel cell according to claim 2, in which—wherein the volume of pore space of the air electrode-side catalyst layer has a range of 3% to 30% of the total volume of the catalyst layer.
- 5. (Currently Amended) A fuel cell having at least a membrane electrode assembly eomprising comprising: an electrolyte membrane, membrane; and a hydrogen electrode-side catalyst layer formed on one side thereof, and an air electrode-side catalyst layer formed on the other side thereof, in which wherein a porosity of the hydrogen electrode-side catalyst layer is made to be lower than a porosity of the air electrode-side catalyst layer, wherein—the the hydrogen electrode-side catalyst layer contains an additive having a-particle particle diameter sized to fill a plurality of voids in a carbon carrier included in the hydrogen electrode-side catalyst layer so as to lower the porosity of the hydrogen electrode-side catalyst-layer, and wherein a volume of pore space of the hydrogen electrode-side catalyst layer has a range of 1.0% to 3.0% of a total volume of the catalyst layer. 6. (Currently Amended) The fuel cell according to claim 5, in which wherein the
- 6. (Currently Amended) The fuel cell according to claim 5, in which wherein the average particle diameter of the additive is less than or equal to 0.3 μm.
- 7. (Currently Amended) The fuel cell according to claim 5, in which wherein a volume of pore space of the hydrogen electrode side catalyst layer has a range of 1.0% to 3.0% of the total volume of the catalyst layer and a volume of pore space of the air electrode-side catalyst layer has a range of 3.0% to 30% of the total volume of the catalyst layer.

a sprayed hydrogen electrode-side catalyst layer formed on one side thereot,
and thereof; and
a non-sprayed air electrode-side catalyst layer formed on the other side thereof,
in which wherein a porosity of the hydrogen electrode-side catalyst layer is
made to be lower than a porosity that of the air electrode-side catalyst-layer layer,
wherein-the the hydrogen electrode-side catalyst layer is formed by spraying a
catalyst ink and the air electrode-side catalyst layer is formed by a transfer method so that the
porosity of the hydrogen electrode-side catalyst layer is made to be lower than that of the air
electrode-side catalyst-layer, and
wherein a volume of pore space of the hydrogen electrode-side catalyst layer
has a range of 1.0% to 3.0% of a total volume of the catalyst layer.

9. (Currently Amended) The fuel cell according to claim 2, in which wherein the volume of pore space of the hydrogen electrode-side catalyst layer is 2% of the total volume of the catalyst layer and a volume of pore space of the air electrode-side catalyst layer is 30% of a-the total volume of the catalyst layer.